TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

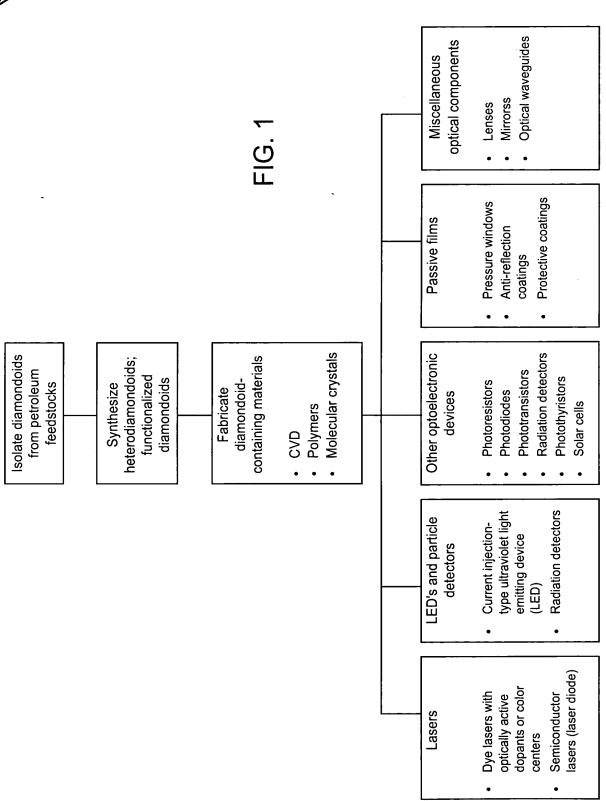
& Shenggao Liu

APPLICATION SERIAL No: 10/621,956

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TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

APPLICATION SERIAL No: 10/621,956

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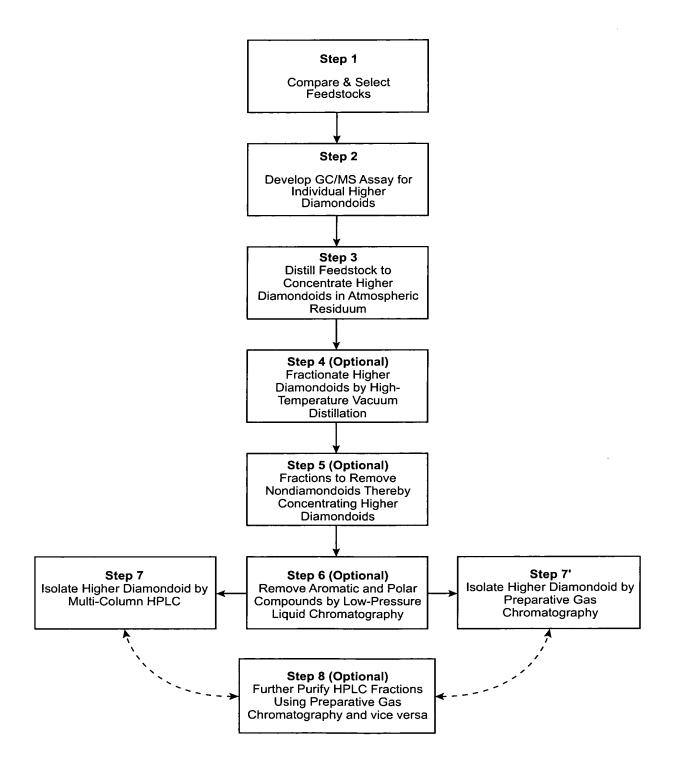


FIG. 2

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS

INVENTOR(S): JEREMY F. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

APPLICATION SERIAL No: 10/621,956 SHEET 3 OF 28

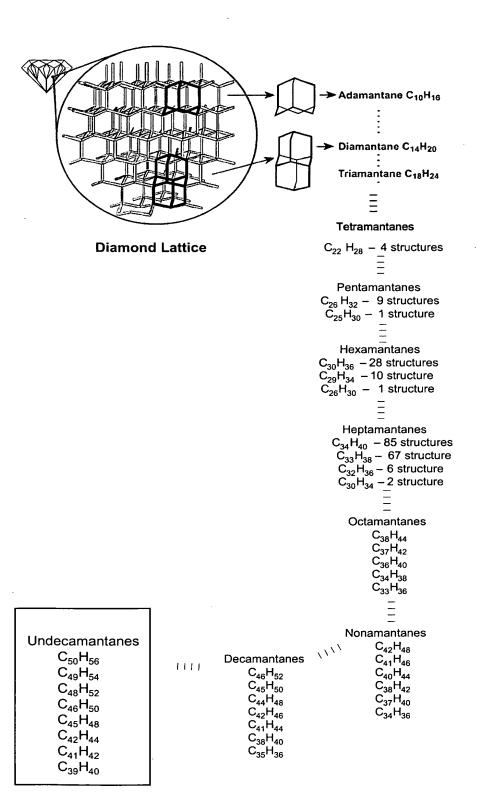


FIG. 3

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS

INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& Shenggao Liu

APPLICATION SERIAL No: 10/621,956

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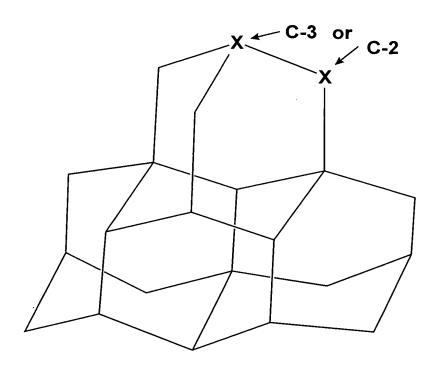


FIG. 4

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS

INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

APPLICATION SERIAL NO: 10/621,956

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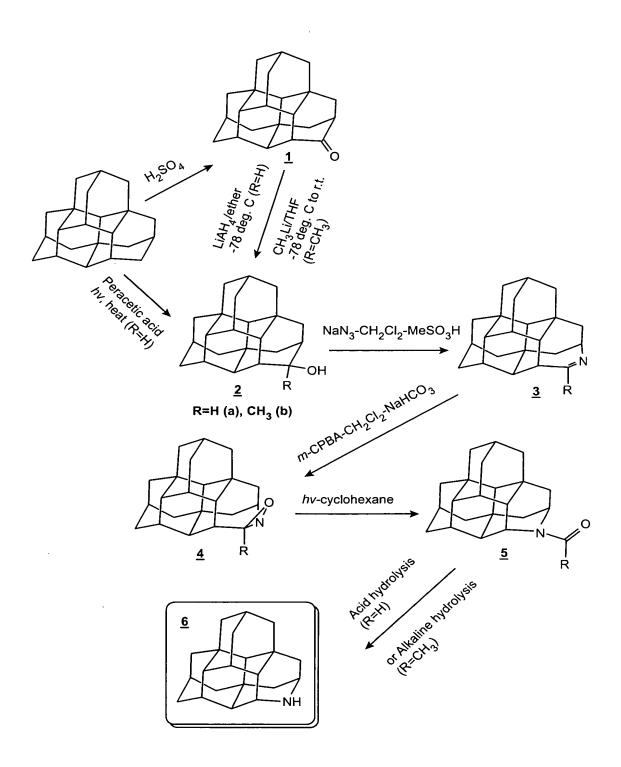


FIG. 5A

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS INVENTOR(S): JEREMY, E. DAHI, ROBERT M. CARLSON

& Shenggao Liu

APPLICATION SERIAL NO: 10/621,956

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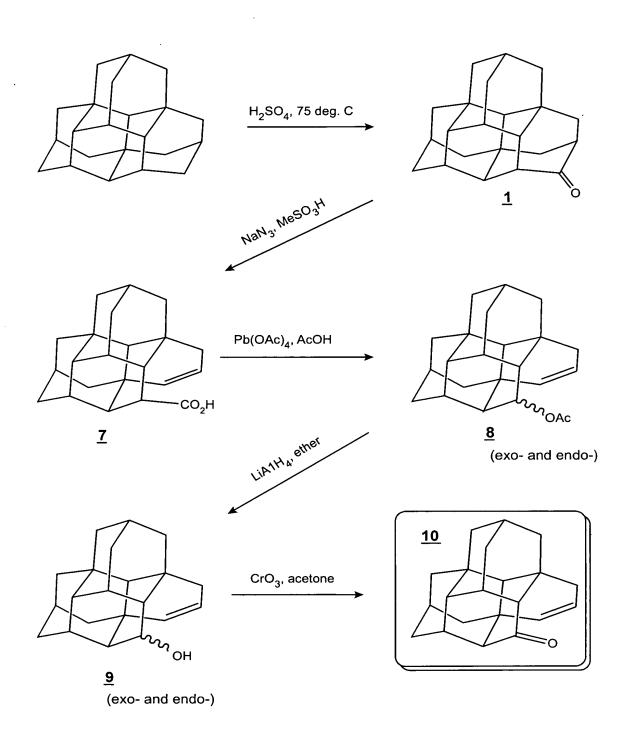


FIG. 5B

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS INVENTOR(S): JEREMY, E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

APPLICATION SERIAL NO: 10/621,956

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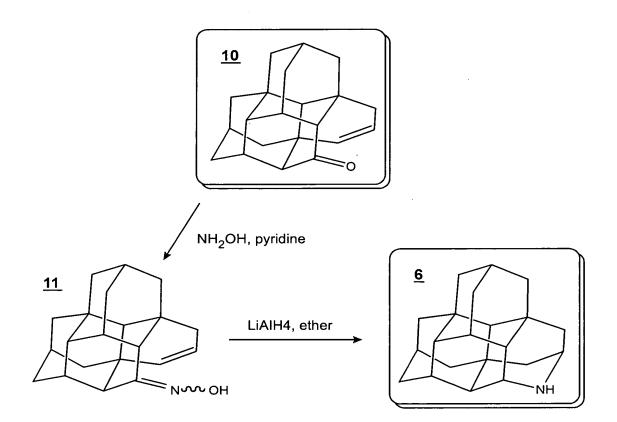


FIG. 5B (cont.)

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

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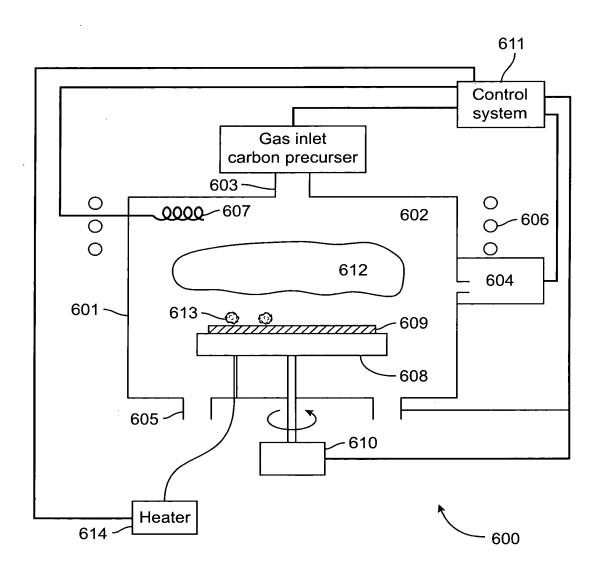


FIG. 6

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS

INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& Shenggao Liu

APPLICATION SERIAL No: 10/621,956

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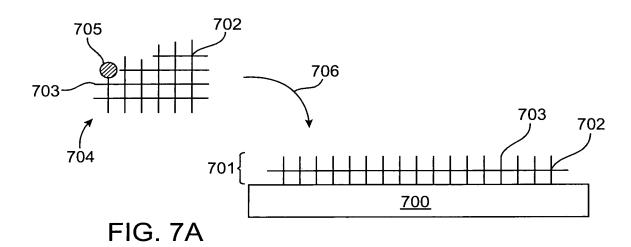


FIG. 7B

<u>700</u>

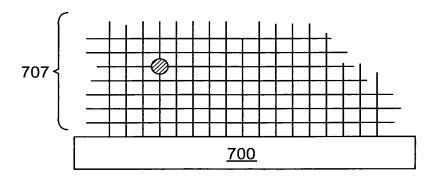


FIG. 7C

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& Shenggao Liu

APPLICATION SERIAL No: 10/621,956

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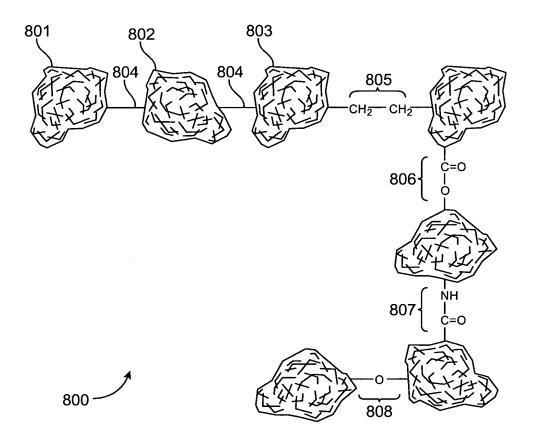


FIG. 8A

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS

INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

APPLICATION SERIAL No: 10/621,956

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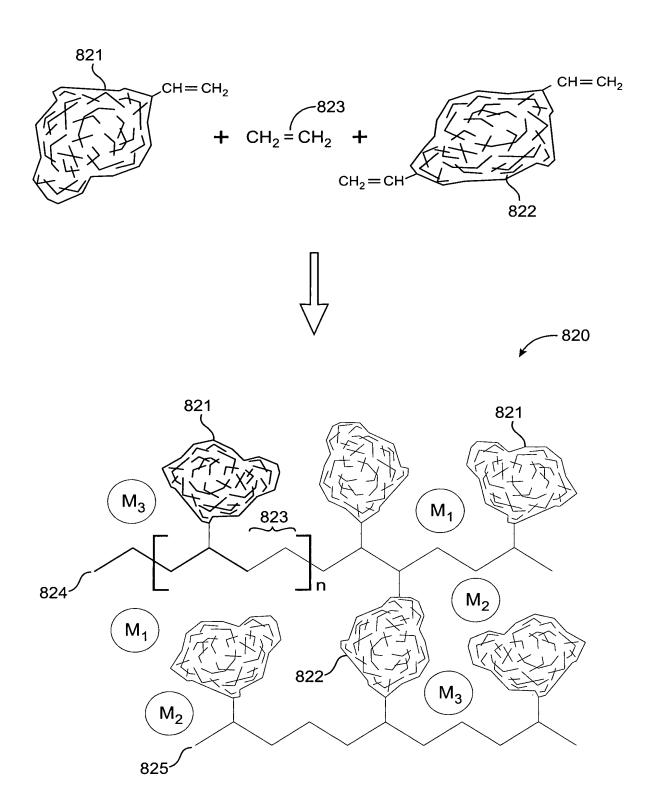


FIG. 8B

APPLN. FILING DATE: JULY 16, 2003
TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS
INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

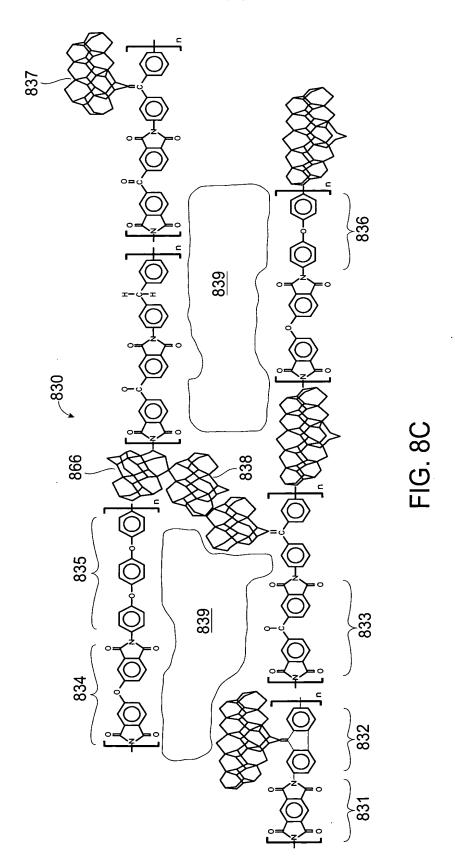
& SHENGGAO LIU

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TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

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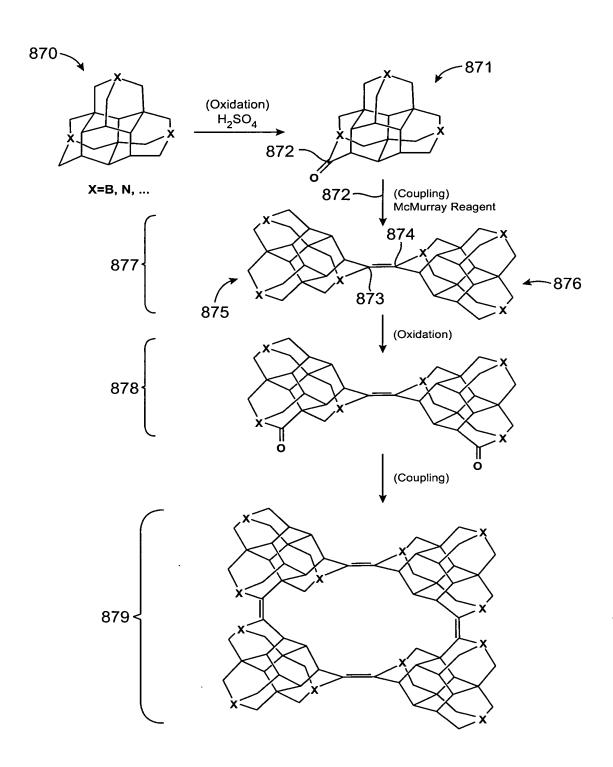


FIG. 8D

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

APPLICATION SERIAL NO: 10/621,956

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POLYACETYLENE

FIG. 9A

$$\overset{\mathsf{H}}{\overset{\mathsf{H}}{\longleftrightarrow}} \mathsf{n}$$

POLYPYRROLE

FIG. 9C

$$+$$
 $\left(\begin{array}{c} \\ \\ \\ \\ \end{array} \right)$

POLYTHIOPHENE

FIG. 9E

$$CH_3$$
 CH_3

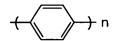
POLY-3 METHYL **THIOPHENE**

FIG. 9G

$$+$$
 S
 $\rightarrow n$

POLYISOTHIANAPHENE

FIG. 9I



POLYPARAPHEMYLENE

FIG. 9B

$$+$$
 $S+n$

POLYPARAPHEMYLENE SULPHIDE

FIG. 9D

POLYPARAPHEMYLENE **VINYLENE**

FIG. 9F

POLYCARBAZOLE

FIG. 9H

POLY(1,6-HEPTADIYNE)

FIG. 9J

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS

INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

APPLICATION SERIAL No: 10/621,956

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$$+$$
 S
 R

POLY-3 ALKYLTHIOPHENE

FIG. 9K

POLYQUINOLINE

FIG. 9L

$$+$$
 S
 R
 n

POLY-3 ALKYLSULSUFONATE

FIG. 9M

POLYANILINE

FIG. 9N

APPLN. FILING DATE: JULY 16, 2003
TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS
INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

APPLICATION SERIAL No: 10/621,956

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TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS

INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

APPLICATION SERIAL NO: 10/621,956

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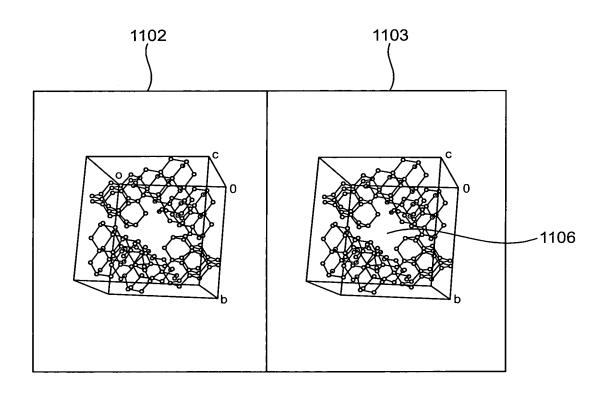


FIG. 11

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

APPLICATION SERIAL No: 10/621,956

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FIG. 12

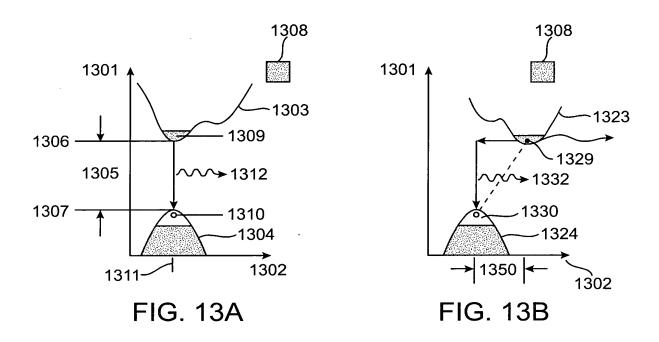
TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

APPLICATION SERIAL NO: 10/621,956

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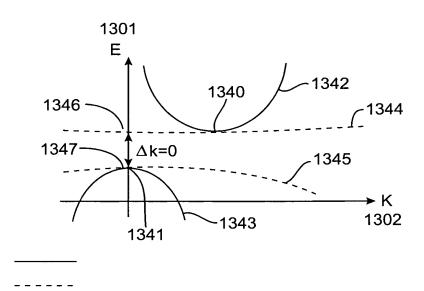


FIG. 13C

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS INVENTOR(S): JEREMY, E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

APPLICATION SERIAL NO: 10/621,956

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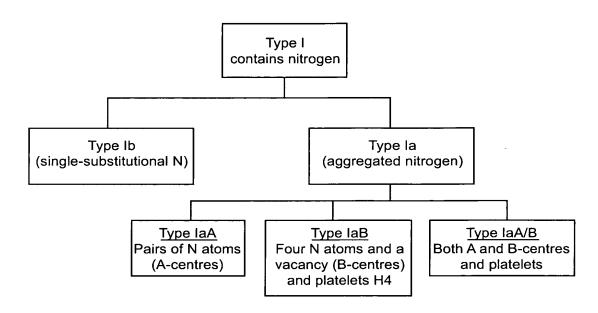


FIG. 14A

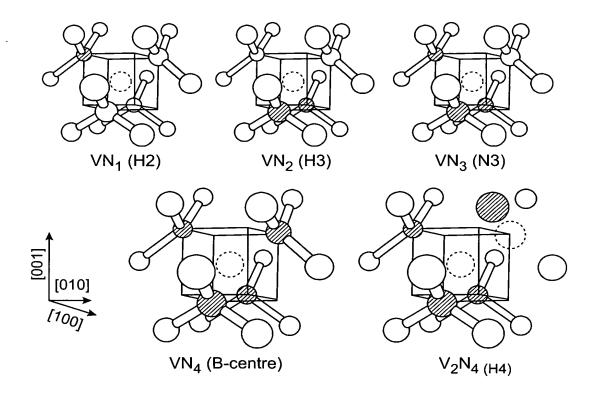


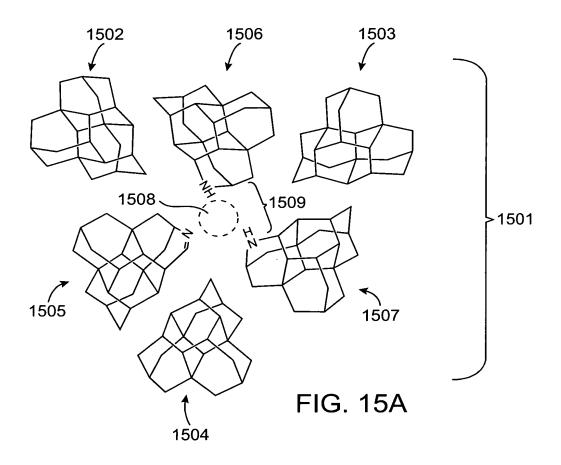
FIG. 14B

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& Shenggao Liu

APPLICATION SERIAL NO: 10/621,956

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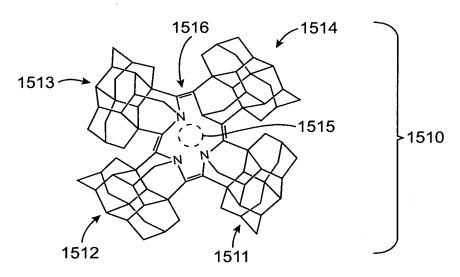


FIG. 15B

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

APPLICATION SERIAL No: 10/621,956

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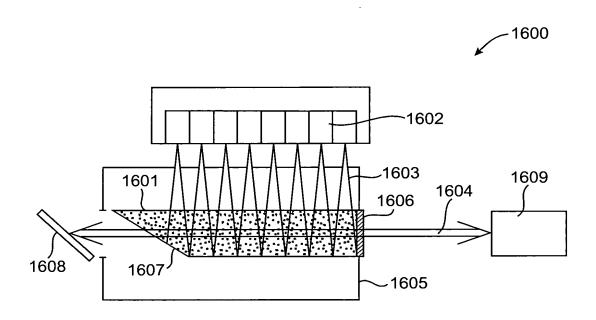


FIG. 16

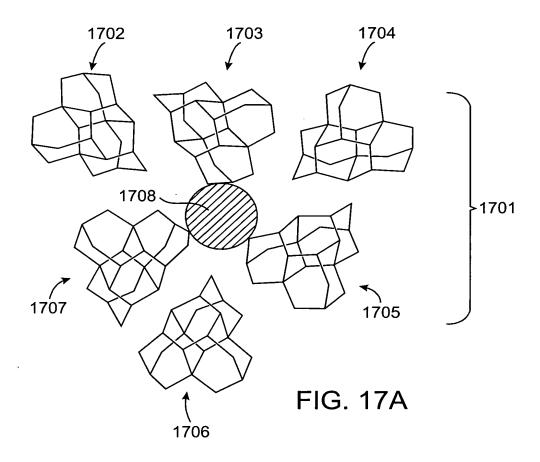
TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS INVENTOR(S): JEREMY, E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

APPLICATION SERIAL NO: 10/621,956

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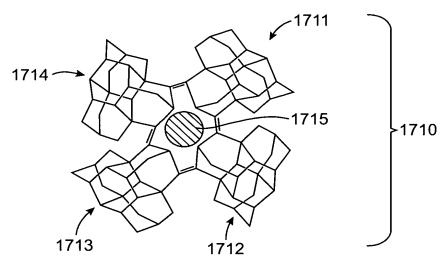


FIG. 17B

APPLN. FILING DATE: JULY 16, 2003
TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS
INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

APPLICATION SERIAL NO: 10/621,956

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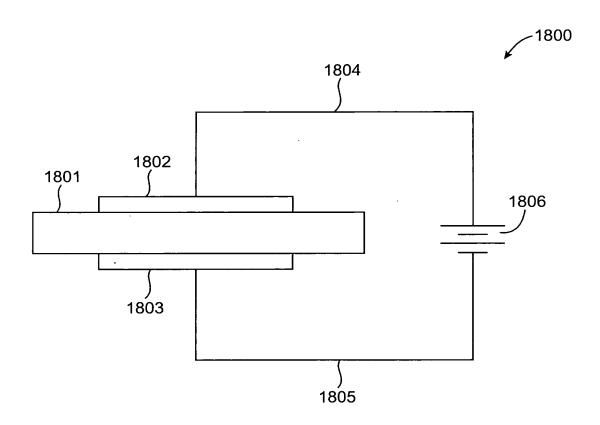


FIG. 18

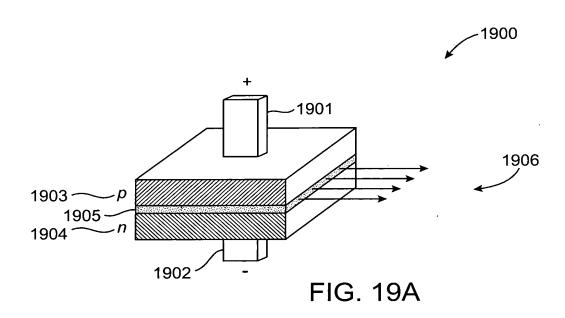
TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

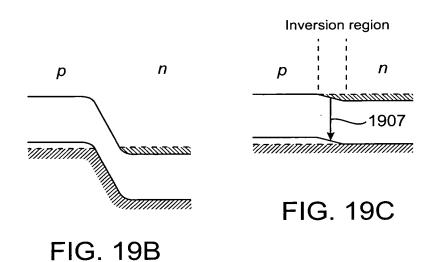
& SHENGGAO LIU

APPLICATION SERIAL No: 10/621,956

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TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

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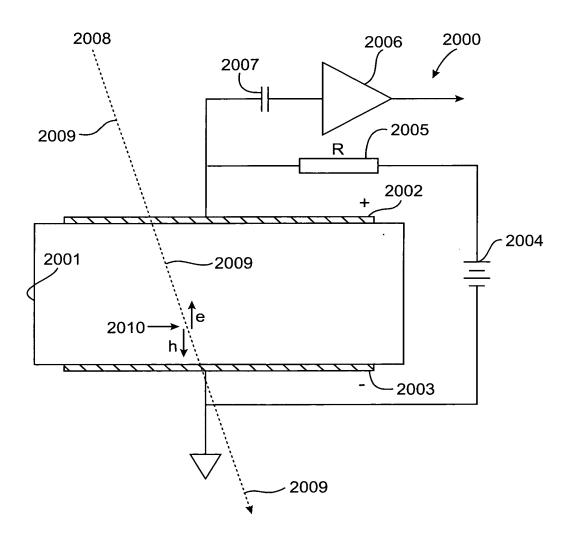


FIG. 20A

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS Inventor(s): Jeremy E. Dahl, Robert M. Carlson

& SHENGGAO LIU

APPLICATION SERIAL No: 10/621,956

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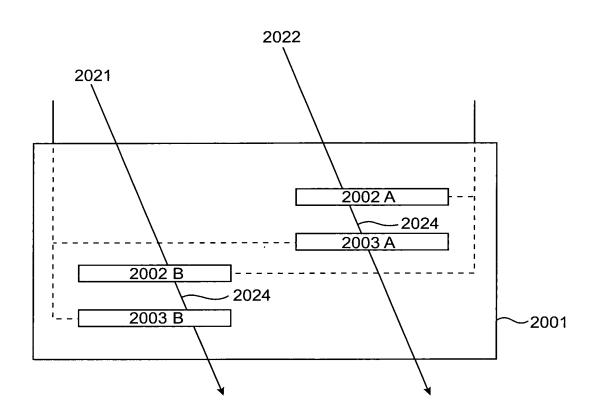


FIG. 20B

TITLE: OPTICAL USES OF DIAMOND-CONTAINING MATERIALS

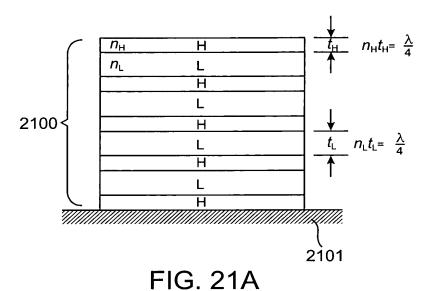
INVENTOR(S): JEREMY E. DAHL, ROBERT M. CARLSON

& SHENGGAO LIU

APPLICATION SERIAL No: 10/621,956

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2116 2115 2118 2110-2110 2111

FIG. 21B